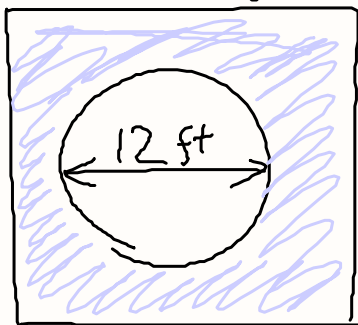


QUIZ GEOMETRY REVIEW (PSSA PREP)

① (#7 p. 172)
20 ft



18 ft

RECTANGLE $l = 20 \text{ ft}$
 $w = 18 \text{ ft}$

AREA OF RECTANGLE
 $A_{\square} = l \cdot w = 20 \cdot 18 =$
 $= 360 \text{ ft}^2$

DIAMETER OF THE CIRCLE = 12 ft

$$R = \frac{12}{2} = 6 \text{ ft}$$

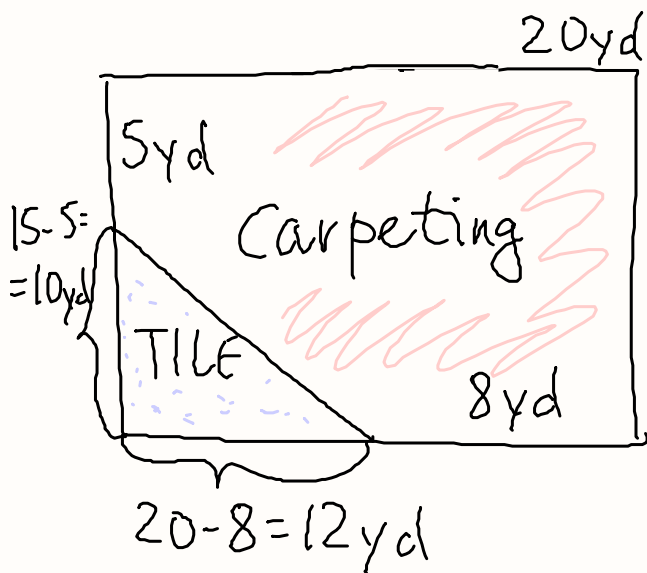
AREA OF THE CIRCLE $A_{\circ} = \pi R^2 = \pi \cdot 6^2 = \pi \cdot 36$

$$= \pi \cdot 36 = 3.14 \cdot 36 \approx 113$$

AREA OF SHADED REGION $A = A_{\square} - A_{\circ} = 360 - 113 = 247 \text{ ft}^2$

#1 (#8 p. 172)

yd = yard



① AREA OF RECTANGLE

$$A_{\square} = l \cdot w = 20 \cdot 15 = 300 \text{ yd}^2$$

② AREA OF TRIANGLE

$$A_{\Delta} = \frac{b \cdot h}{2} = \frac{12 \cdot 10}{2} = 60 \text{ yd}^2$$

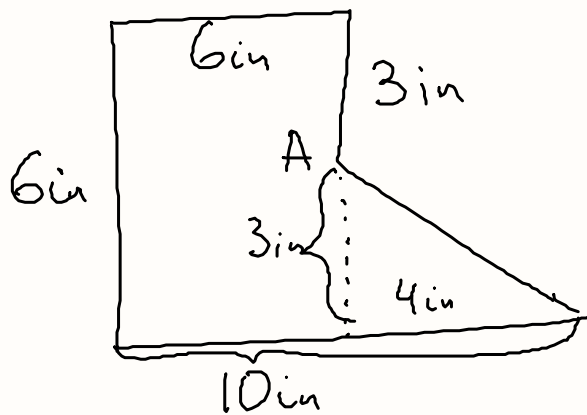
③ CARPETING AREA

$$A = A_{\square} - A_{\Delta} = 300 - 60 = 240 \text{ yd}^2$$

$b = \text{base} = 12 \text{ yd}$

$h = \text{height} = 10 \text{ yd}$

#3 (#5 p. 173)



$$AB = \sqrt{3^2 + 4^2} = \sqrt{25} = 5 \text{ in}$$

PERIMETER =

$$B = 6 + 6 + 3 + 5 + 10 = 30 \text{ in}$$